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Cess, R. D.; Zhang, M.-H.; Potter, G. L.; Barker, H. W.; Colman, R. A.; Dazlich, D. A.; Del Genio, A. D.; Esch, M.; Fraser, J. R.; Galin, V.; Gates, W. L.; Hack, J. J.; Ingram, W. J.; Kiehl, J. T.; Lasic, A. A.; Le Treut, H.; Li, Z.-X.; Liang, X.-Z.; Mahfouf, J.-F.; McAvaney, B. J.; Meleshko, V. P.; Morcrette, J.-J.; Randall, D. A.; Roeckner, E.; Royer, J.-F.; Sokolov, A. P.; Sporyshev, P. V.; Taylor, K. E.; Wang, W.-C.; Wetherald, R. T.: Uncertainties in carbon dioxide radiative forcing in atmospheric general circulation models. p1252 19 Nov 1993.

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Chang, Caren; Kwok, Shing F.; Bleeker, Anthony B.; Meyerowitz, Elliot M.: *Arabidopsis ethylene-response gene ETR1*: similarity of product to two-component regulators. p539 22 Oct 1993.

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Clerici, Mario. See Shearer, Gene M.

—; Lucey, Daniel R.; Berzofsky, Jay A.; Pinto, Ligia A.; Wynn, Thomas A.; Blatt, Stephen P.; Dolan, Matthew J.; Hendrix, Craig W.; Wolf, Stanley F.; Shearer, Gene M.: Restoration of HIV-specific cell-mediated immune responses by interleukin-12 in vitro. p1721 10 Dec 1993.

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—; and Koshland, Daniel E., Jr.: p53 sweeps through cancer research (molecule of the year). p1958 24 Dec 1993.

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Delwart, Eric L.; Shpaer, Eugene G.; Louwagie, Joost; McCutchan, Francine E.; Grez, Manuel; Rübsamen-Waigmann, Helga; Mullins, James I.: Genetic relationships determined by a DNA heteroduplex mobility assay: analysis of HIV-1 env genes. p1257 19 Nov 1993.

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Freeman, Gordon J.; Borrillo, Frank; Hodes, Richard J.; Reiser, Hans; Hathcock, Karen S.; Laszlo, Gloria; McKnight, Andrew J.; Kim, Jinny; Du, Lina; Lombard, David B.; Gray, Gary S.; Nadler, Lee M.; Sharpe, Arlene H.: Uncovering of functional alternative CTLA-4 counter-receptor in B7-deficient mice. p907 5 Nov 1993.
Freeman, Gordon J.; Gribben, John G.; Boussiotis, Vassiliki A.; Ng, Judy W.; Restivo, Vincent A., Jr.; Lombard, Lisa A.; Gray, Gary S.; Nadler, Lee M.: Cloning of B7-2: A CTLA-4 counter-receptor that costimulates human T cell proliferation. p909 5 Nov 1993.
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ments in the Laboratory, by Y. T. Chen and Alan Cook. p924 5 Nov 1993.

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Haber, Daniel A.; Park, Seon; Maheswaran, Shyamala; Engler, Christoph; Re, Gian G.; Hazen-Martin, Debra J.; Sens, Donald A.; Garvin, A. Julian: *WT1*-mediated growth suppression of Wilms tumor cells expressing a *WT1* splicing variant. p2057 24 Dec 1993.

Haccard, Olivier; Sarcevic, Boris; Lewellyn, Andrea; Hartley, Rebecca; Roy, Linda; Izumi, Tetsuro; Erikson, Eleanor; Maller, James L.: Induction of metaphase arrest in cleaving *Xenopus* embryos by MAP kinase. p1262 19 Nov 1993.

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_____; Laszlo, Gloria; Dickler, Howard B.; Bradshaw, Jeff; Linsley, Peter; Hodes, Richard J.: Identification of an alternative CTLA-4 ligand costimulatory for T cell activation. p905 5 Nov 1993.

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Madison, Edwin L.; Kobe, Andreja; Gething, Mary-Jane; Sambrook, Joseph F.; Goldsmith, Elizabeth J.: Converting tissue plasminogen activator to a zymogen: a regulatory triad of Asp-His-Ser. p419 15 Oct 1993.
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—; Almond, Jeffrey W.; Berns, Kenneth I.; Chanock, Robert M.; Lvov, Dmitry K.; Petersson, Ralf F.; Schatzmayer, Hermann G.; Fenn, Frank: The remaining stocks of smallpox virus should be destroyed (policy forum). p1223 19 Nov 1993.
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Mallah, T.; Thiébaut, S.; Verdaguier, M.; Veillet, P.: High- T_c molecular-based magnets: ferrimagnetic mixed-valence chromium(III)-chromium(II) cyanides with T_c at 240 and 190 Kelvin. p1554 3 Dec 1993.
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Miller, Susan Katz (minorities in science '93): Minorities move from lab rats to policy wonks. p1101 12 Nov 1993.
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—, Nakamura, Yoshiaki; Russell, Sarah M.; Ziegler, Steven F.; Tsang, Monica; Cao, Xiqing; Leonard, Warren J.: Interleukin-2 receptor γ chain: a functional component of the interleukin-7 receptor. p1877 17 Dec 1993.

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Nowak, Rachel (news): 'Bubble boy' paradox resolved. p1818 17 Dec 1993. Draft genome map debuts on Internet. p1967 24 Dec 1993.

Nunes, G., Jr. and Freeman, M. R.: Picosecond resolution in scanning tunneling microscopy. p1029 12 Nov 1993.

Nufiez-Requeiro, M.; Tholence, J.-L.; Antipov, E. V.; Capponi, J.-J.; Marezio, M.: Pressure-induced enhancement of T_c above 150 K in Hg-1223. p97 1 Oct 1993.

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Ohmoto, Hiroshi; Kakegawa, Takeshi; Lowe, Donald R.: 3.4-billion-year-old biogenic pyrites from Barberton, South Africa: sulfur isotope evidence. p555 22 Oct 1993.

Ohsumi, Keita; Katagiri, Chiaki; Kishimoto, Takeo: Chromosome condensation in *Xenopus*

mitotic extracts without histone H1. p2033 24 Dec 1993.

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1993. Hominid sites ravaged by *Homo sapiens*. p34 1 Oct 1993. How rich countries stack up environmentally. p1815 17 Dec 1993. How to make a fossil. p1207 19 Nov 1993. Hubble goof gets priced at \$25 million. p336 15 Oct 1993. Ig Nobels: not the real McCloys. p509 22 Oct 1993. "Intelligent design" at San Francisco State. p1976 24 Dec 1993. Irreproducible address. p1977 24 Dec 1993. Japan prize goes to American and Swede. p1977 24 Dec 1993. Japan's women in science. p1976 24 Dec 1993. Keeping score on animal activism. p34 1 Oct 1993. Keeping up with PETA. p1510 3 Dec 1993. Language may give Chinese an edge in math. p651 29 Oct 1993. Lasker Awards resume. p35 1 Oct 1993. Lighting a path for lightning. p1643 10 Dec 1993. Long-distance math learning. p1977 24 Dec 1993. The making of a (female scientist). p1815 17 Dec 1993. A map for mankind. p35 1 Oct 1993. Mother-infant HIV trial on track. p182 8 Oct 1993. Nature supplies lens for astronomers. p986 12 Nov 1993. New hunt on for bipolar genes. p651 29 Oct 1993. New start for behavioral researchers. p1814 17 Dec 1993. NIGMS to go out on a limb. p34 1 Oct 1993. No excess cancer seen from bomb tests. p1976 24 Dec 1993. Not for members only. p1814 17 Dec 1993. NSF joins the crowd in new program. p183 8 Oct 1993. NSF report calls for more computing power. p650 29 Oct 1993. Once again Parkfield quake is a no-show. p1369 26 Nov 1993. Organic farming with cocaine. p651 29 Oct 1993. Pan-European drug, environment agencies. p986 12 Nov 1993. Pendulum theory of quake protection. p1510 3 Dec 1993. Portrait of a woman engineer. p840 5 Nov 1993. Public TV to air series on women scientists. p336 15 Oct 1993. Pumping up science awareness in Europe. p183 8 Oct 1993. Radon regs shot down for now. p337 15 Oct 1993. Reproductive stance staked out for Canada. p1815 17 Dec 1993. Research funding crosses the border. p840 5 Nov 1993. Research reactors dodge a bullet. p34 1 Oct 1993. Rolling Stone rolls over for Koprowski. p1369 26 Nov 1993. Samples: Not for members only. p1814 17 Dec 1993. Scrambling for dino eggs. p1369 26 Nov 1993. Second-hand leukemia. p987 12 Nov 1993. Silly science goes online. p1643 10 Dec 1993. Sleeping the sleep of our ancestors. p1207 19 Nov 1993. Smart materials get a production boost. p509 22 Oct 1993. Snoring machine could help poor sleepers. p509 22 Oct 1993. Song of the young paleontologist. p1511 3 Dec 1993. Sonograms take on a new dimension. p1207 19 Nov 1993. Study sections not kosher? p1814 17 Dec 1993. Trial balloon or loose cannon? p1814 17 Dec 1993. UC tables tech transfer companies. p182 8 Oct 1993. UFO sighters not batty, study finds. p987 12 Nov 1993. Utah puts fusion out in the cold. p1643 10 Dec 1993. Veggie cure for plant fungus. p337 15 Oct 1993. Women in biomedicine: still slugging it out. p650 29 Oct 1993.

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Raynaud, D.; Barnola, J. M.; Chapellaz, J.; Delmas, R. J.; Lorius, C.; Jouzel, J.; Schwander, J.: Gravitational separation in polar firm (technical comment). p764 29 Oct 1993.

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Taking stock of the Genome Project. p20 1 Oct 1993.

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Rosenberg, A. A.; Fogarty, M. J.; Sissenwine, M. P.; Beddington, J. R.; Shepherd, J. G.: Achieving sustainable use of renewable resources (policy forum). p828 5 Nov 1993.

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———; Keegan, Achsah D.; Harada, Nobuyuki; Nakamura, Yoshiaki; Noguchi, Masayuki; Leland, Pamela; Friedman, Michael C.; Miyajima, Atsushi; Puri, Raj K.; Paul, William E.; Leonard, Warren J.: Interleukin-2 receptor γ chain: a functional component of the interleukin-4 receptor. p1880 17 Dec 1993.

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Schwartz, David C.; Li, Xiaojun; Hernandez, Luis I.; Ramnarain, Satyadarshan P.; Huff, Edward J.; Wang, Yu-Ker: Ordered restriction maps of *Saccharomyces cerevisiae* chromosomes constructed by optical mapping. p110 1 Oct 1993.

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Smirnova, Tania; Stinnakre, Jacques; Mallet, Jacques: Characterization of a presynaptic glutamate receptor. p430 15 Oct 1993.

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Tax protein stimulation of DNA binding of bZIP proteins by enhancing dimerization. p395 15 Oct 1993.

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—; Richter, Wolfgang; Andreotti, Amy Hamilton; Farmer, Bennett T., II: Generation of impossible cross-peaks between bulk water and biomolecules in solution NMR. p2005 24 Dec 1993.

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Winograd, E. See Yan, Y.

Wise, Jo Ann: Guides to the heart of the spliceosome (perspective). p1978 24 Dec 1993.

Wivel, Nelson A. and Walters, LeRoy: Germ-line gene modification and disease prevention: some medical and ethical perspectives. p533 22 Oct 1993.

Wolf, Stanley F. See Clerici, Mario.

Wolfman, Alan. See Wu, Jie.

Wolpoff, M. H. See Eckhardt, R. B.

Wonneit, Kurt. See Heemels, Marie-Thérèse.

Woo, Savio L. C. See Kay, Mark A.

Woodburne, Michael O.: The Baucus Bill (letter). p1955 24 Dec 1993.

Wooley, Jacqueline D.: review by *Foundations of the Mind*, by Eugene V. Subbotsky. p926 5 Nov 1993.

Wootton, John C. See Lawrence, Charles E.

Wright, Peter E. See Jennings, Patricia A.

Wu, Jie; Dent, Paul; Jelinek, Thomas; Wolfman, Alan; Weber, Michael J.; Sturgill, Thomas W.: Inhibition of the EGF-activated MAP kinase signaling pathway by adenosine 3',5'-monophosphate. p1065 12 Nov 1993.

Wu, Tiyun. See Martin, Gregory B.

Wu, Yujia. See Li, Xingxiang.

Wynn, Thomas A. See Clerici, Mario.

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Xie, Xiao Ming. See Laguës, Michel.

Xie, Zuowei. See Reed, Christopher A.

Xiong, Huayu. See Kamtekar, Satwik.

Xu, Shui. See Binzel, Richard P.

Xu, Xiang Zhen. See Laguës, Michel.

Yan, Horng-Chin. See Vaportcian, Ara A.

Yan, Xiao-Hai; Ho, Chung-Ru; Zheng, Quanan; Klemas, Vic: Using satellite infrared data in studies of variabilities of the western Pacific warm pool (technical comment). p441 15 Oct 1993.

Yan, Y.; Winograd, E.; Viel, A.; Cronin, T.; Harrison, S. C.; Branton, D.: Crystal structure of the repetitive segments of spectrin. p2027 24 Dec 1993.

Yancopolous, George D. See Lamb, Teresa M.

Yang, Limei C. See Piatak, Michael, Jr.

Ye, Bihui H.; Lista, Florio; Lo Coco, Francesco; Knowles, Daniel M.; Oftit, Kenneth; Chaganti, R. S. K.; Dall-Favera, Riccardo: Alterations of a zinc finger-encoding gene, *BCL-6*, in diffuse large-cell lymphoma. p747 29 Oct 1993.

Yen, T. S. Benedict: The chlorine controversy (letter). p16 1 Oct 1993.

Yonekura, Hideto. See Takasawa, Shin.

Young, Mark C. See Erie, Dorothy A.

Young, Neal S. See Brown, Kevin E.

Yu, Mujun. See Porter, Jeffrey A.

Yuen, Paul C.: Recovering funds (letter). p164 8 Oct 1993.

Zaki, Sherif. See Nichol, Stuart T.

Zare, Richard N. See Clemett, Simon J.

Zensus, J. A. See Backer, D. C.

Zerr, A. and Boehler, R.: Melting of $(Mg,Fe)SiO_3$ -perovskite to 625 kilobars: indication of a high melting temperature in the lower mantle. p553 22 Oct 1993.

Zhang, Cun-Hao and Sha, Guo-He: Double resonance spectroscopy and molecular dynamics (science in Asia perspective). p374 15 Oct 1993.

Zhang, Dian-Zhong. See Li, Xingxiang.

Zhang, M.-H. See Cess, R. D.

Zhang, Suhla: T cell receptor specificity and diabetes in nonobese diabetic mice (technical comment). p1582 3 Dec 1993.

Zhang, Tao. See Harbury, Peter B.

Zhang, X. See Müller, W.

Zhang, Xi-guang and Pratt, Brian R.: Early Cambrian ostracode larvae with a univalved carapace. p93 1 Oct 1993.

Zhang, Xue-jun. See Blaber, Michael.

Zhang, Yuhong. See Venable, Richard M.

Zheng, Quanan. See Yan, Xiao-Hai.

Zheng, Zhipeng: The present and future of China's particle physics research (science in Asia perspective). p368 15 Oct 1993.

Ziegler, Steven F. See Noguchi, Masayuki.

Zinkernagel, Rolf M. See Bachmann, Martin F. See also Kündig, Thomas.

Zioncheck, Thomas. See Ebner, Reinhard.

Zones, Stacey I. See Lobo, Raul F.

Zou, Chao. See Ross, Wilma.

Zou, Yong-Rui; Gu, Hua; Rajewsky, Klaus: Generation of a mouse strain that produces immunoglobulin κ chains with human constant regions. p1271 19 Nov 1993.

